

IN THE CLAIMS:

Rewrite the pending claims and add new claims as follows:

1. (Original): A bone sheet for implantation, the sheet comprising an at least partially demineralized field substantially surrounding at least one mineralized region.
2. (Original): The bone sheet according to claim 1 having at least one rib providing localized thickness to the sheet.
3. (Original): The bone sheet according to claim 1, wherein the sheet is formed of cortical bone.
4. (Original): The bone sheet according to claim 3, wherein the sheet comprises a plurality of mineralized regions.
5. (Original): The bone sheet according to claim 4, wherein at least two of the mineralized regions are connected by a strut.
6. (Original): The bone sheet according to claim 3, wherein the at least one mineralized region defines at least one hole in the sheet.
7. (Original): The bone sheet according to claim 6, wherein the at least one hole is configured and dimensioned to receive at least one fastener.
8. (Original): The bone sheet according to claim 3, wherein the sheet has a thickness of between about 0.5 mm and about 3 mm.
9. (Currently amended): ~~The~~ A method of forming a flexible bone sheet comprising:
 - providing a sheet of cortical bone;
 - creating at least one hole in the cortical sheet which is configured and dimensioned to receive a fastener;
 - masking the cortical sheet proximate the at least one hole to create a masked region surrounding the at least one hole; and
 - applying demineralizing agents to the cortical sheet around the masked region.
10. (Original): The method according to claim 9, wherein a plurality of masking elements are removably attached to the sheet to provide masking proximate the at least one hole.
11. (Original): The method according to claim 9, wherein the masking is provided by at least one of the group consisting of tape, paint, and a coating.
12. (Original): The method according to claim 9, further comprising creating perforations in the sheet that are substantially smaller than the at least one hole.

13. (Original): The method according to claim 9, further comprising cutting a bone section along a spiral path.

14. (Withdrawn): A sheet formed of bone comprising two or more strips of bone each having a bone grain orientation, wherein the bone grain orientation of at least one strip is disposed transverse to the grain orientation of another strip.

15. (Withdrawn): The sheet according to claim 14, wherein the strips are interwoven.

16. (Withdrawn): The sheet according to claim 14, wherein the strips are selected from at least one of the group consisting of mineralized bone, demineralized bone, and partially demineralized bone.

17. (Withdrawn): The sheet according to claim 14, wherein a portion of at least one strip is at least partially demineralized.

18. (Withdrawn): The sheet according to claim 14, wherein the strips are interwoven to form a plurality of generally parallel rows and a plurality of generally parallel columns.

19. (Withdrawn): The sheet according to claim 14, wherein the strips have a width between about 1mm and about 6 mm.

20. (Withdrawn): The sheet according to claim 19, wherein the strips have a thickness of between about 0.5 mm and about 2 mm.

21. (Withdrawn): The sheet according to claim 14, wherein the strips have a width of about 5 mm and a thickness of about 1 mm.

22. (Withdrawn): The sheet according to claim 14, wherein the bone strips are unitary in construction.

23. (Withdrawn): The sheet according to claim 14, wherein at least one strip is formed by braiding two or more bone fibers.

24. (Withdrawn): The sheet according to claim 14, wherein each bone strip has a longitudinal axis and the bone grain orientation is substantially parallel thereto.

25. (Previously presented): A method of forming a flexible bone sheet comprising:

providing a sheet of cortical bone;

creating at least one hole in the sheet which is configured and dimensioned to receive a fastener;

masking the sheet proximate the at least one hole to create a masked region surrounding the at least one hole; and

applying at least one demineralizing agent to the sheet around the masked region.

26. (Previously presented): The method according to claim 25, wherein the masking at least partly comprises:

removably attaching a plurality of masking elements to the sheet to provide masking proximate the at least one hole.

27. (Previously presented): The method according to claim 25, further comprising:

creating perforations in the sheet that are substantially smaller than the at least one hole.

28. (Previously presented): The method according to claim 25, further comprising:

masking the sheet proximate at least a portion of an edge thereof.

29. (Currently amended): A bone sheet for implantation, the sheet comprising:
a flexible and at least partially demineralized field;

at least one mineralized region that is substantially surrounded by the at least partially demineralized field; and

at least one hole configured and dimensioned to receive at least one fastener.

30. (Previously presented): The bone sheet according to claim 29, wherein the sheet comprises cortical bone.

31. (Previously presented): The bone sheet according to claim 29, wherein the at least one mineralized region consists essentially of cortical bone.

32. (Previously presented): The bone sheet according to claim 29, wherein the at least one hole is defined within the at least one mineralized region.

33. (Currently amended): The bone sheet according to claim 29, wherein the sheet comprises at least two holes and the mineralized region extends between at least two holes.

34. (Previously presented): The bone sheet according to claim 29, wherein the mineralized region extends between at least three holes.

35. (Previously presented): The bone sheet according to claim 29, further comprising an outer edge of the bone sheet, wherein the mineralized region extends to the outer edge.

36. (Previously presented): A mesh for implantation comprising:
a perforated cortical bone sheet comprising a plurality of openings;
at least one mineralized region disposed around at least one of the openings; and
an at least partially demineralized region disposed around the at least one mineralized region.

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37. (New): A bone sheet for implantation, the sheet comprising an at least partially demineralized field and at least one mineralized region having a top surface, a bottom surface, and at least one side surface;

wherein the at least partially demineralized field substantially surrounds the at least one side surface.

38. (New): A bone sheet for implantation, the sheet comprising:

a flexible and at least partially demineralized field;

at least one mineralized region having a top surface, a bottom surface, and at least one side surface, the side surface being substantially surrounded by the at least partially demineralized field; and

at least one hole configured and dimensioned to receive at least one fastener.
